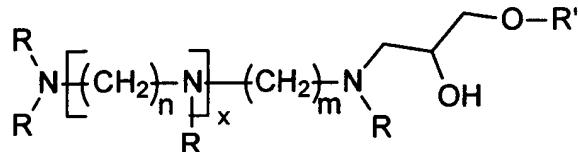


CLAIMS

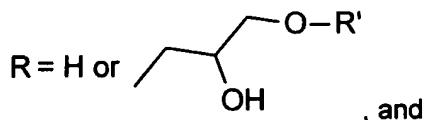
We claim:

1. In a method for controlling the foaming of a waterborne composition or an industrial process by the incorporation of a foam controlling agent, the improvement
5 which comprises utilizing as the foam controlling agent a compound of the formula:



where n and m are 2 or 3,

x is 1-6,



- 10 R' is a C4 to C22 alkyl group,

the compound generating an initial foam height at least 30% less than a 0.1 wt% aqueous solution of dioctyl sodium sulfosuccinate (DOSS) when added at 0.1 wt% to the DOSS solution.

- 15 2. The method of Claim 1 in which R' is C4-C14 alkyl.

3. The method of Claim 1 in which x is 1 or 2.

4. The method of Claim 1 in which n and m are 2.

- 20 5. The method of Claim 1 in which the compound generates an initial foam height at least 50% less.

6. The method of Claim 1 in which R' is C4 alkyl, x is 1, n and m are 2 and the degree of adduction is 2, 3 or 4.

5 7. The method of Claim 1 in which R' is C4 alkyl, x is 2, n and m are 2 and the degree of adduction is 2, 3 or 4.

8. The method of Claim 1 in which R' is C8 alkyl, x is 1, n and m are 2 and the degree of adduction is 1, 2 or 3.

10 9. The method of Claim 1 in which R' is C12-16 alkyl, x is 1, n and m are 2 and the degree of adduction is 1 or 2.

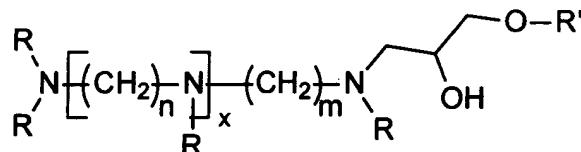
15 10. The method of Claim 1 in which R' is C4 or C8 alkyl, x is 1, and n and m are both 2.

11. The method of Claim 1 in which the waterborne composition is a protective or decorative coating, an ink composition, an adhesive composition or an agricultural composition.

20 12. The method of Claim 1 in which the industrial process is oil well pumping, petroleum gas scrubbing, cleansing or disinfecting, food processing, pulp or paper processing, fermentation, metal treatment, polymer or chemical synthesis, waste-water treatment, or textile dyeing or finishing

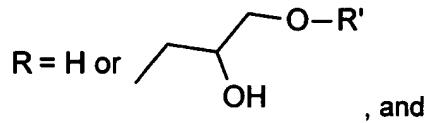
13. In an aqueous composition containing a foam control agent which composition manifests greater foaming in the absence of the agent, the improvement which comprises the incorporation of a foam controlling amount of an alkyl glycidyl ether-capped polyamine of the formula as the foam control agent:

5



where n and m are 2 or 3,

x is 1-6,



R' is a C4 to C22 alkyl group,

10 where R' is a C4 to C22 alkyl group, the alkyl glycidyl ether-capped polyamine generating an initial foam height at least 30% less than a 0.1 wt% aqueous solution of dioctyl sodium sulfosuccinate (DOSS) when added at 0.1 wt% to the DOSS solution.

14. The composition of Claim 13 which comprises in water an inorganic
15 compound which is a mineral ore or a pigment or an organic compound which is a pigment, a polymerizable monomer, an oligomeric resin, a polymeric resin, a detergent, a herbicide, an insecticide, a fungicide, or a plant growth modifying agent.

15. The composition of Claim 13 in which R' is C4-C14 alkyl.

20

16. The composition of Claim 13 in which x is 1 or 2.

17. The composition of Claim 13 in which n and m are 2.

18. The composition of Claim 13 in which the alkyl glycidyl ether-capped polyamine generates an initial foam height at least 50% less.

5

19. The composition of Claim 13 in which R' is C4 alkyl, x is 1, n and m are 2 and the degree of adduction is 2, 3 or 4.

20. The composition of Claim 13 in which R' is C4 alkyl, x is 2, n and m are 2 and

10 the degree of adduction is 2, 3 or 4.

21. The composition of Claim 13 in which R' is C8 alkyl, x is 1, n and m are 2 and the degree of adduction is 1, 2 or 3.

15

22. The composition of Claim 13 in which R' is C12-16 alkyl, x is 1, n and m are 2 and the degree of adduction is 1 or 2.

23. The composition of Claim 13 in which R' is C4 or C8 alkyl, x is 1, and n and m are both 2.

20

24. The composition of Claim 13 which is an aqueous organic coating composition comprising in an aqueous medium 30 to 80 wt% of a coating composition which comprises the following components

25 0 to 50 wt% pigment dispersant, grind resin or mixtures thereof;

0 to 80 wt% coloring pigment, extender pigment, anti-corrosive pigment, other pigment types or mixtures thereof;

5 to 99.9 wt% water-borne, water-dispersible or water-soluble resin or mixtures thereof;

5 0 to 30 wt% slip additive, antimicrobial agent, processing aid or mixtures thereof;

0 to 20 wt% coalescing or other solvent;

10 0.01 to 10 wt% surfactant, wetting agent, flow and leveling agents or mixtures thereof; and

0.01 to 5 wt% alkyl glycidyl ether-capped polyamine.

15 25. The composition of Claim 13 which is an aqueous ink composition

comprising in an aqueous medium 20 to 60 wt% of an ink composition which comprises

the following components

1 to 50 wt% pigment;

20 0 to 50 wt% pigment dispersant, grind resin or mixtures thereof;

0 to 50 wt% clay base in a resin solution vehicle;

25 5 to 99 wt% water-borne, water-dispersible or water-soluble resin or mixtures thereof;

0 to 30 wt% coalescing or other solvent;

30 0.01 to 10 wt% processing aid, solubilizing agent or mixtures thereof;

0.01 to 10 wt% surfactant, wetting agent or mixtures thereof; and

0.01 to 5 wt% alkyl glycidyl ether-capped polyamine.

35

26. The composition of Claim 13 which is an aqueous agricultural composition

comprising in an aqueous medium 0.1 to 80 wt% of an agricultural composition which

comprises the following components

40 0.1 to 50 wt% a herbicide, insecticide, plant growth modifying agent or mixtures thereof;

0 to 5 wt% dye;

0 to 20 wt% thickener, stabilizer, co-surfactant, gel inhibitor or mixtures thereof;

0 to 25 wt% antifreeze;

5 0.01 to 50 wt% surfactant, wetting agent or mixtures thereof; and
0.01 to 10 wt% alkyl glycidyl ether-capped polyamine.

10 27. The composition of Claim 13 which is an aqueous fountain solution
composition comprising the following components

0.05 to 10 wt% film formable, water soluble macromolecule;

1 1 to 25 wt% alcohol, glycol, or C2-C12 polyol;

15 0.01 to 20 wt% water soluble organic acid, inorganic acid, or a salt
thereof;

30 to 70 wt% water;

20 0.01 to 5 wt% wetting agent; and
0.01 to 5 wt% alkyl glycidyl ether-capped polyamine.

25 28. The composition of Claim 13 which is an aqueous adhesive composition
comprising the following components

50 to 99 wt% waterborne acrylic copolymer emulsion, SBR latex or natural
rubber latex;

30 0 to 50 wt% tackifier dispersion;
0 to 5 wt% rheology modifier;
0 to 10 wt% water;
35 0.1 to 5 wt% wetting agent; and
0.1 to 5 wt% alkyl glycidyl ether-capped polyamine.

40 29. The composition of Claim 13 which is an aqueous overprint varnish
composition comprising the following components

20 to 80 wt% waterborne or water dispersible resin;

0 to 20 wt% wax;

2 to 50 wt% water;

5

0 to 20 wt% biocides, optical brightener, crosslinker, scuff or water
resistant additives and mixtures thereof;

0 to 20 wt% co-solvent;

10

0.01 to 5 wt% wetting agent; and

0.1 to 5 wt% alkyl glycidyl ether-capped polyamine.

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